

## LDO Regulator Pos 1.25V to 9V 0.5A Automotive 6-Pin WSON EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** WSON6

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The LP3869x-ADJ low-dropout CMOS linear regulators provide 2% precision reference voltage, extremely low dropout voltage (250 mV at 500-mA load current,  $V_{OUT} = 5\text{ V}$ ), and excellent AC performance using ultra-low equivalent series resistance (ESR) ceramic output capacitors.

The low thermal resistance of the WSON and SOT-223 packages allow use of the full operating current even in high ambient temperature environments.

The use of a PMOS power transistor means that no DC base drive current is required to bias it, thus allowing the GND-pin current to remain below 100  $\mu\text{A}$  regardless of load current, input voltage, or operating temperature.

For all available packages, see the orderable addendum at the end of the data sheet.

### Key Features

Wide Input Voltage Range: 2.7 V to 10 V

All WSON Options are Available as AEC-Q100 Grade 1

Output Voltage Range: 1.25 V to 9 V

2% Adjust (ADJ) Pin Voltage Accuracy (25°C)

Low Dropout Voltage: 250 mV at 500 mA  
(Typical, 5-V Out)

Precision (Trimmed) Bandgap Reference

Ensured Specs for -40°C to 125°C

1- $\mu\text{A}$  Off-State Quiescent Current

Thermal Overload Protection

Foldback Current Limiting

Ground (GND) Pin Current: 55  $\mu\text{A}$  (Typical) at Full Load

Enable (EN) Pin (LP38693-ADJ)



## Recommended For You

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### **LP2997MR**

Texas Instruments, Inc  
SOP-8

### **LP2951-50QDRGRQ1**

Texas Instruments, Inc  
SON-8

### **TL431ILP**

Texas Instruments, Inc  
TO-92

### **LP3966ES-ADJ/NOPB**

Texas Instruments, Inc  
TO263

### **TPL7407LPWR**

Texas Instruments, Inc  
TSSOP16

### **LP2997MR/NOPB**

Texas Instruments, Inc  
SOP8

### **TL431CLP**

Texas Instruments, Inc  
TO-92

### **LP2996MR/NOPB**

Texas Instruments, Inc  
SOP-8

### **LP2951-50QDRQ1**

Texas Instruments, Inc  
SOP8

### **LP5912Q1.8DRVRQ1**

Texas Instruments, Inc  
WSO-6

### **LP5912Q3.3DRVRQ1**

Texas Instruments, Inc  
WSO-6

### **LP2996MX**

Texas Instruments, Inc  
SOP-8

### **LP2996MX/NOPB**

Texas Instruments, Inc  
SOP8

### **LP2989AIM-3.3/NOPB**

Texas Instruments, Inc  
SOP8

### **LP2998MAX/NOPB**

Texas Instruments, Inc  
SOP8